

ABSTRACT

A motor housing assembly includes a motor housing with two magnets disposed in the housing in a spaced relationship and a brush holder that couples with the motor housing. The magnets are disposed inside the motor housing to form two spaces in between the magnets. The brush holder has two tabs that extend inside the motor housing in between the two spaces. The tabs allow the brushes in the brush holder to be aligned solely based on the magnet position to ensure that there is proper angular alignment between the brushes and the magnets.

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